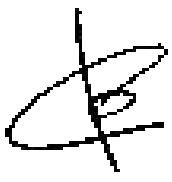
ALL.5

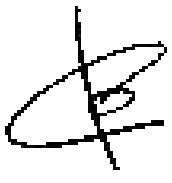
ALL.5.1 DICHIARAZIONE DI CONFORMITA' SEGA

ALL.5.2 Relazione tecnica di progetto



ALL.5.1

DICHIARAZIONE DI CONFORMITA’



DICHIARAZIONE DI CONFORMITÀ DELL'IMPIANTO ALLA REGOLA DELL'ARTE

(Art 7 del Decreto M.S.E. n. 37 del 22 gennaio 2008 – Decreto M.S.E. del 19 maggio 2010)

Il sottoscritto DUVERGES Francois

titolare o legale rappresentante dell'impresa (ragione sociale) SEGA

operante nel settore IMPIANTI ELETTRICI INDUSTRIALI

con sede in via du PONT LAFLEUR n.91670 Comune ANGERVILLE - FRANCIA

tel. _____Partita IVA FR84 320 377 153

iscritta nel registro delle imprese (d.P.R. 7/12/1995, n. 581)
☒ della Camera C.I.A.A. di EVRY n. B320377153

☐ iscritta all'albo Provinciale delle imprese artigiane (l. 8/8/1985, n. 443) di _____ n._____

esecutrice dell'impianto (descrizione schematica): Installazione elettrica nu.8 gruppi di continuità di emergenza per Data Center LOTTO DC07, costituita da blindosbarre, cavi, canalette portacavi, quadri di potenza e controllo in tutto commissionato dalla ditta ENERIA.

inteso come: ☒ nuovo impianto ☐ trasformazione ☐ ampliamento ☐ manutenzione straordinaria
☐ altro (1)_____

Nota - Per gli impianti a gas specificare il tipo di gas distribuito: canalizzato della 1ª - 2ª - 3ª famiglia; GPL da recipienti mobili; GPL da serbatoio fisso. Per gli impianti elettrici specificare la potenza massima impegnabile.

commissionato da: Data4 installato nei locali siti

nel Comune di Settimo Milanese-Cornaredo (Prov. MI) via Reiss Romoli

_____ n. _____ scala ____ piano ____ interno ____di proprietà di DATA4

e indirizzo) Piazza Eleonora Duse, 2 20122 MILANO

in edificio adibito ad uso: ☒ industriale ☐ civile ☐ commercio ☐ altri usi;

DICHIARA

sotto la propria personale responsabilità, che l'impianto è stato realizzato in modo conforme alla regola dell'arte, secondo quanto previsto dall'art. 6, tenuto conto delle condizioni di esercizio e degli usi a cui è destinato l'edificio, avendo in particolare:

☐ rispettato il progetto redatto ai sensi dell'art. 5 da (2)__Cesare Ing. Prada - ENERIA;
☐ seguito la norma tecnica applicabile all'impiego (3) CEI-IEC DM 13-07-2011

☐ installato componenti e materiali adatti al luogo di installazione (artt. 5 e 6);
☐ controllato l'impianto ai fini della sicurezza e della funzionalità con esito positivo, avendo eseguito le verifiche richieste dalle norme e dalle disposizioni di legge.

Allegati obbligatori:
☐ progetto ai sensi degli articoli 5 e 7 (4);
☐ relazione con tipologie dei materiali utilizzati (5);
☐ schema di impianto realizzato (6);
☐ riferimento a dichiarazioni di conformità precedenti o parziali, già esistenti (7);
☐ copia del certificato di riconoscimento dei requisiti tecnico-professionali;
☐ attestazione di conformità per impianto realizzato con materiali o sistemi non normalizzati (8).

Allegati facoltativi (9):

_____

_____

ordine degli ingegneri della provincia di monza e della brianza
DECLINA
DOTT. ING.
PRADA CESARE
Sez. A Settori:
a) civile e ambientale
b) industriale
(firma e timbro)
n° A 343

ogni responsabilità per sinistri a persone o a cose derivanti da manomissione dell'impianto da parte di terzi ovvero da carenze di manutenzione o riparazione.

Data 05-04-2023 Il responsabile tecnico Il dichiarante

SEGA S.A.S.
(timbro e firma)
18, Rue du Pont lafleur Z.I. RN20
91670 ANGERVILLE
Tél. : 01 69 95 11 80
R.C. EVRY B 320 377 153

AVVERTENZE PER IL COMMITTENTE: responsabilità del committente o del proprietario, art. 8 (10)

ALL.5.2

INSTALLAZIONE ELETTRICA
IMPIANTO GRUPPI ELETTROGENI DI SOCCORSO
LOTTO DC-07
Settimo Milanese MI

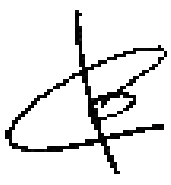
Committente: Eneria-CAT

Proprietà: DATA 4 ITALY Srl

RELAZIONE TECNICA

INSTALLAZIONI ELETTRICHE

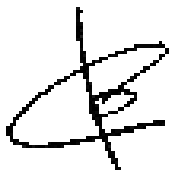
Settimo Milanese 05 aprile 2023



INDICE

1 PREMESSA 5
2 DESCRIZIONE DELL'IMPIANTO MECCANICO 5
3 DESCRIZIONE DELLE OPERE. 5
4 COMPONENTI 6

All.5.2.1 Certificati di collaudo e posa.



1 PREMESSA

1.1 L'impianto di cui all'oggetto è parte di un progetto più vasto per la realizzazione di un "Data center" di proprietà di DATA 4 ITALY srl, p.za E. Duse, 2 20122 Milano.

1.2 La presente relazione riguarda il lotto denominato DC07.

1.3 L'impianto riguarda n. 8 Gruppi elettrogeni di soccorso che intervengono in emergenza alla mancanza di corrente dalla rete pubblica per mantenere attivo e funzionante il data center.

1.1 Gli 8 Gruppi elettrogeni sono installati in quattro sotto-centrali distinte nel corpo di fabbrica, così disposte:

1.1.1 GE A e B nello spigolo Nord-Est.

1.1.2 GE C e D nello spigolo Sud-Est.

1.1.3 GE E e F nello spigolo Nord-Ovest.

1.1.4 GE H e G nello spigolo Sud-Ovest.

2 DESCRIZIONE DELL'IMPIANTO

2.1 L'impianto è principalmente costituito da 2+2+2+2 gruppi elettrogeni EneriaCAT da 3.250KVA (2.600eKW) ciascuno, completo dei macchinari e componenti di complemento.

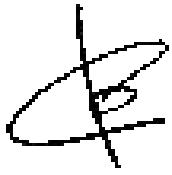
2.2 Tra i componenti di completamento dell'impianto risultano di essenziale importanza i quadri elettrici di controllo e comando del sistema forniti da ENERIA e tutta l'impiantistica di collegamento tra le varie parti e componenti.

2.3 L'impianto oggetto della fornitura è principalmente costituito dalle seguenti voci:

2.3.1 Attività di montaggio in campo con fornitura di materiale di montaggio quali: canalette portacavi e cavi di collegamento, componentistica e minuteria elettrica varia.

3 DESCRIZIONE DELLE OPERE.

3.1 La Committente Eneria per la realizzazione "Impianto gruppi elettrogeni di soccorso" ha fornito il macchinario principale ovvero i gruppi elettrogeni completi delle parti accessorie quali pompe di circolazione, i radiatori di raffreddamento, il serbatoio giornaliero del combustibile i quadri elettrici di controllo, mentre per le parti di completamento e le opere di installazione e montaggio si è avvalsa di imprese in subappalto.



3.2 In particolare le opere affidate alla ditta “SEGA“ hanno riguardato la installazione dei componenti elettrici, il loro collegamento attraverso cavi elettrici idonei.

3.3 I cavi elettrici sono stati correttamente posati sostenuti dalle canale portacavi.

3.4 I collegamenti sono stati correttamente effettuati e collaudati.

4 COMPONENTI

4.1 I componenti di cui a seguito sono conformi a quanto previsto dagli articoli 5, 6 (DM37-2008) e sono idonei all’ambiente di installazione.

Presso lo stabilimento DATA 4 ITALY Srl in Settimo Milanese sono presenti tutti gli ulteriori documenti di progetto e di certificazione dei componenti minori.

Cesare Ing. Prada

All.5.2.1 Certificati di collaudo e posa.

Proprietà

DATA 4 ITALY

Progetto

DC 07
MILAN

Supervisore delegato del committente

GIS.IMO S.r.l.
centro direzionale quattrotorri
06132 PERUGIA
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Fax : +39 075 518 12 88

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Progetto architettonico

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impianti elettrici/dati

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Cedex - FRANCE
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Fax : +33 (0) 169802150

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Via Pontaccio,12/A- 20121 Milano
italsocotec@italsocotec.it
Tél. : +39 02 89051500
Fax : +39 02 89051501

Cod	Data	Descrizione
	30/09/2022	

DATA 4 ITALY - DC07 Milan
Commissioning Level 1 - Grey tag
Cabinet and TGGE GEA

Eneria CAT

CABINET CHECKLIST

Dated : 20/09/2022 FILE : DATA DC 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : EGRON Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO CONTROLLO-COMANDO A N° electrical plans : E-7021-2

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	OK
Lock bolt condition	OK
Key lock	OK
Door lighting / limit switch	OK
Cable gland plate	OK
Assembly kit	OK
Fixing devices	OK

TERMINALS	
Size of terminals	OK
Colors	OK
Terminal markers	OK
Terminal markers title	OK
Shunted terminals	OK
Honeycomb terminal	OK
Tightening	OK

PUSH BUTTON / SWITCHES	
Locations	OK
Colors	OK

SIGNALS	
LED colors	OK
Locations	OK

PLC	
Run / Stop key (if necessary)	NA
MMC Card	OK
PROFIBUS Connector	NA
PLC I / O labels	OK
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	OK
Grounded devices	OK
Doors connected to earth	OK
Ground mounting plate	OK
Grounded bottom panels	OK
Roof to earth	OK
Screw on earth bar	OK

WIRES	
Sizes	OK
Colors	OK
Wire and cable markers	OK
Tightening	OK
Fixings	OK

SHIELDING	
Shield continuity	OK
Shielded on earth bar	OK
Color shielded wires	OK

LABELS	
FRONT PANEL LABELS	
Locations	OK
Colors	OK
Texts	OK
Sizes	OK
Cabinet identification label	OK
ENERIA CAT Label	OK
INTERNAL LABELS	
Labels on devices	OK
Labels on chutes	OK
Color dots on chutes	OK
Manufacturer references label	OK
Manual operation sheet, option	OK

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	OK
Wires in reserve in chutes	OK
Breath wrench for tachometer	NA

OBSERVATIONS : those will be installed on site. 10 1 Q1 60Q7
10 1 Q2
4612
AP1A
AP1B

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	ok
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	Ok
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	ok
Checking the change in state of the insulation monitor.	ok
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	ok
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	ok
Verification of each digital PLC input (viewed by SIEMENS console).	ok
Verification of each digital PLC output (forcing by SIEMENS console).	ok
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	ok
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	ok
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	ok
Lighting and limit switch check cabinet door, ventilation and thermostat.	ok
Checking the continuity of the commons	ok

OBSERVATIONS :

Eneria CAT

CABINET CHECKLIST

Dated : 19/09/2022 FILE : DATA 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : PRADINES Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO TGGE A N° electrical plans : E-7021-4

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	ok
Lock bolt condition	ok
Key lock	ok
Door lighting / limit switch	NA
Cable gland plate	ok
Assembly kit	ok
Fixing devices	ok

TERMINALS	
Size of terminals	ok
Colors	ok
Terminal markers	ok
Terminal markers title	ok
Shunted terminals	ok
Honeycomb terminal	NA
Tightening	ok

PUSH BUTTON / SWITCHES	
Locations	ok
Colors	ok

SIGNALS	
LED colors	NA
Locations	NA

PLC	
Run / Stop key (if necessary)	NA
MMC Card	NA
PROFIBUS Connector	NA
PLC I / O labels	NA
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	ok
Grounded devices	ok
Doors connected to earth	ok
Ground mounting plate	NA
Grounded bottom panels	ok
Roof to earth	ok
Screw on earth bar	ok

WIRES	
Sizes	ok
Colors	ok
Wire and cable markers	ok
Tightening	ok
Fixings	ok

SHIELDING	
Shield continuity	NA
Shielded on earth bar	NA
Color shielded wires	NA

LABELS	
FRONT PANEL LABELS	
Locations	ok
Colors	ok
Texts	ok
Sizes	ok
Cabinet identification label	ok
ENERIA CAT Label	ok
INTERNAL LABELS	
Labels on devices	ok
Labels on chutes	ok
Color dots on chutes	ok
Manufacturer references label	ok
Manual operation sheet, option	NA

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	ok
Wires in reserve in chutes	NA
Breath wrench for tachometer	NA

OBSERVATIONS :

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	NA
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	NA
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	NA
Checking the change in state of the insulation monitor.	NA
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	NA
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	NA
Verification of each digital PLC input (viewed by SIEMENS console).	NA
Verification of each digital PLC output (forcing by SIEMENS console).	NA
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	NA
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	NA
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	NA
Lighting and limit switch check cabinet door, ventilation and thermostat.	NA
Checking the continuity of the commons	ok

OBSERVATIONS :

Proprietà

DATA 4 ITALY

Progetto

DC 07
MILAN

Supervisore delegato del committente

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italsocotec@italsocotec.it
Tél. : +39 02 89051500
Fax : +39 02 89051501

Cod	Data	Descrizione
	30/09/2022	

DATA 4 ITALY - DC07 Milan
Commissioning Level 1 - Grey tag
Cabinet and TGGE GEB

Eneria CAT

CABINET CHECKLIST

Dated : 20/09/2022 FILE : DATA DC 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : EGRON Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO CONTROLLO-COMANDO B N° electrical plans : E-7021-2

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	OK
Lock bolt condition	OK
Key lock	OK
Door lighting / limit switch	OK
Cable gland plate	OK
Assembly kit	OK
Fixing devices	OK

TERMINALS	
Size of terminals	OK
Colors	OK
Terminal markers	OK
Terminal markers title	OK
Shunted terminals	OK
Honeycomb terminal	OK
Tightening	OK

PUSH BUTTON / SWITCHES	
Locations	OK
Colors	OK

SIGNALS	
LED colors	OK
Locations	OK

PLC	
Run / Stop key (if necessary)	NA
MMC Card	OK
PROFIBUS Connector	NA
PLC I / O labels	OK
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	OK
Grounded devices	OK
Doors connected to earth	OK
Ground mounting plate	OK
Grounded bottom panels	OK
Roof to earth	OK
Screw on earth bar	OK

WIRES	
Sizes	OK
Colors	OK
Wire and cable markers	OK
Tightening	OK
Fixings	OK

SHIELDING	
Shield continuity	OK
Shielded on earth bar	OK
Color shielded wires	OK

LABELS	
FRONT PANEL LABELS	
Locations	OK
Colors	OK
Texts	OK
Sizes	OK
Cabinet identification label	OK
ENERIA CAT Label	OK
INTERNAL LABELS	
Labels on devices	OK
Labels on chutes	OK
Color dots on chutes	OK
Manufacturer references label	OK
Manual operation sheet, option	

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	OK
Wires in reserve in chutes	OK
Breath wrench for tachometer	NA

OBSERVATIONS : those Will 2 0 1 Q 1 4 9 1 7
be installed 2 0 1 Q 2 6 0 Q 1
on site. A P i A
A P i B
L 8 1 1
L 8 1 2

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	ok
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	ok
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	N1
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	N1
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	ok
Checking the change in state of the insulation monitor.	ok
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	ok
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	ok
Verification of each digital PLC input (viewed by SIEMENS console).	ok
Verification of each digital PLC output (forcing by SIEMENS console).	ok
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	ok
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	ok
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	ok
Lighting and limit switch check cabinet door, ventilation and thermostat.	ok
Checking the continuity of the commons	ok

OBSERVATIONS :

Eneria CAT

CABINET CHECKLIST

Dated : 19/09/2022 FILE : DATA 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : PRADINES Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO TGGE B N° electrical plans : E-7021-4

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	OK
Lock bolt condition	OK
Key lock	OK
Door lighting / limit switch	NA
Cable gland plate	OK
Assembly kit	OK
Fixing devices	OK

TERMINALS	
Size of terminals	OK
Colors	OK
Terminal markers	OK
Terminal markers title	OK
Shunted terminals	OK
Honeycomb terminal	NA
Tightening	OK

PUSH BUTTON / SWITCHES	
Locations	OK
Colors	OK

SIGNALS	
LED colors	NA
Locations	NA

PLC	
Run / Stop key (if necessary)	NA
MMC Card	NA
PROFIBUS Connector	NA
PLC I / O labels	NA
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	OK
Grounded devices	OK
Doors connected to earth	OK
Ground mounting plate	NA
Grounded bottom panels	OK
Roof to earth	OK
Screw on earth bar	OK

WIRES	
Sizes	OK
Colors	OK
Wire and cable markers	OK
Tightening	OK
Fixings	OK

SHIELDING	
Shield continuity	NA
Shielded on earth bar	NA
Color shielded wires	NA

LABELS	
FRONT PANEL LABELS	
Locations	OK
Colors	OK
Texts	OK
Sizes	OK
Cabinet identification label	OK
ENERIA CAT Label	OK
INTERNAL LABELS	
Labels on devices	OK
Labels on chutes	OK
Color dots on chutes	OK
Manufacturer references label	OK
Manual operation sheet, option	NA

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	OK
Wires in reserve in chutes	NA
Breath wrench for tachometer	NA

OBSERVATIONS :

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	NA
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	NA
Isolation tests.	Ok
Checking the fuse and circuit breaker ratings.	Ok
Checking all circuits for the absence of short circuits (using an ohmeter).	Ok
After checking the drawings, connect the cabinet power supplies..	Ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	Ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	NA
Checking the change in state of the insulation monitor.	NA
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	NA
Checking relay chains, inverters, indicator lights, switches, etc.	Ok
Verification of each entry and exit of degraded step plates (if they exist).	NA
Verification of each digital PLC input (viewed by SIEMENS console).	NA
Verification of each digital PLC output (forcing by SIEMENS console).	NA
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	NA
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	NA
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	NA
Lighting and limit switch check cabinet door, ventilation and thermostat.	NA
Checking the continuity of the commons	OK

OBSERVATIONS :

Proprietà

DATA 4 ITALY

Progetto

DC 07
MILAN

Supervisore delegato del committente	**GIS.IMO S.r.l.** centro direzionale quattrotorri 06132 PERUGIA	Tél. : +39 075 517 29 83 Fax : +39 075 518 12 88
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Cod	Data	Descrizione
	30/09/2022	

DATA 4 ITALY - DC07 Milan
Commissioning Level 1 - Grey tag
Cabinet and TGGE GEC

Eneria CAT

CABINET CHECKLIST

Dated : 20/09/2022 FILE : DATA DC 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : EGRON Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO CONTROLLO-COMANDO C N° electrical plans : E-7021-2

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	ok
Lock bolt condition	ok
Key lock	ok
Door lighting / limit switch	ok
Cable gland plate	ok
Assembly kit	ok
Fixing devices	ok

TERMINALS	
Size of terminals	ok
Colors	ok
Terminal markers	ok
Terminal markers title	ok
Shunted terminals	ok
Honeycomb terminal	ok
Tightening	ok

PUSH BUTTON / SWITCHES	
Locations	ok
Colors	ok

SIGNALS	
LED colors	ok
Locations	ok

PLC	
Run / Stop key (if necessary)	NA
MMC Card	ok
PROFIBUS Connector	NA
PLC I / O labels	ok
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	ok
Grounded devices	ok
Doors connected to earth	ok
Ground mounting plate	ok
Grounded bottom panels	ok
Roof to earth	ok
Screw on earth bar	ok

WIRES	
Sizes	ok
Colors	ok
Wire and cable markers	ok
Tightening	ok
Fixings	ok

SHIELDING	
Shield continuity	ok
Shielded on earth bar	ok
Color shielded wires	ok

LABELS	
FRONT PANEL LABELS	
Locations	ok
Colors	ok
Texts	ok
Sizes	ok
Cabinet identification label	ok
ENERIA CAT Label	ok
INTERNAL LABELS	
Labels on devices	ok
Labels on chutes	ok
Color dots on chutes	ok
Manufacturer references label	ok
Manual operation sheet, option	ok

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	ok
Wires in reserve in chutes	ok
Breath wrench for tachometer	NA

OBSERVATIONS : There will 1 01 Q2 to installed A P i A on site. A P i B 60Q1

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	ok
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	ok
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	ok
Checking the change in state of the insulation monitor.	ok
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	ok
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	ok
Verification of each digital PLC input (viewed by SIEMENS console).	ok
Verification of each digital PLC output (forcing by SIEMENS console).	ok
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	ok
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	ok
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	ok
Lighting and limit switch check cabinet door, ventilation and thermostat.	ok
Checking the continuity of the commons	ok

OBSERVATIONS :

Eneria CAT

CABINET CHECKLIST

Dated : 19/09/2022 FILE : DATA 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : PRADINES Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO TGGE C N° electrical plans : E-7021-4

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	OK
Lock bolt condition	OK
Key lock	OK
Door lighting / limit switch	N/A
Cable gland plate	OK
Assembly kit	OK
Fixing devices	OK

TERMINALS	
Size of terminals	OK
Colors	OK
Terminal markers	OK
Terminal markers title	OK
Shunted terminals	OK
Honeycomb terminal	N/A
Tightening	OK

PUSH BUTTON / SWITCHES	
Locations	OK
Colors	OK

SIGNALS	
LED colors	N/A
Locations	N/A

PLC	
Run / Stop key (if necessary)	N/A
MMC Card	N/A
PROFIBUS Connector	N/A
PLC I / O labels	N/A
Driver Modbus in card	N/A

EARTH CIRCUIT	
Seizes	OK
Grounded devices	OK
Doors connected to earth	OK
Ground mounting plate	N/A
Grounded bottom panels	OK
Roof to earth	OK
Screw on earth bar	OK

WIRES	
Sizes	OK
Colors	OK
Wire and cable markers	OK
Tightening	OK
Fixings	OK

SHIELDING	
Shield continuity	N/A
Shielded on earth bar	N/A
Color shielded wires	N/A

LABELS	
FRONT PANEL LABELS	
Locations	OK
Colors	OK
Texts	OK
Sizes	OK
Cabinet identification label	OK
ENERIA CAT Label	OK
INTERNAL LABELS	
Labels on devices	OK
Labels on chutes	OK
Color dots on chutes	OK
Manufacturer references label	OK
Manual operation sheet, option	N/A

VARIOUS	
Earth disconnector wires on terminals	N/A
Cleaning	OK
Wires in reserve in chutes	N/A
Breath wrench for tachometer	N/A

OBSERVATIONS :

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	NA
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	NA
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	NA
Checking the change in state of the insulation monitor.	NA
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	NA
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	NA
Verification of each digital PLC input (viewed by SIEMENS console).	NA
Verification of each digital PLC output (forcing by SIEMENS console).	NA
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	NA
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	NA
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	NA
Lighting and limit switch check cabinet door, ventilation and thermostat.	NA
Checking the continuity of the commons	ok

OBSERVATIONS :

Proprietà

DATA 4 ITALY

Progetto

DC 07
MILAN

Supervisore delegato del committente	**GIS.IMO S.r.l.** centro direzionale quattrotorri 06132 PERUGIA	Tél. : +39 075 517 29 83 Fax : +39 075 518 12 88
Assistente del committente	**GARRETTI ASSOCIATI S.r.l.** via Trieste, 9 - 20146 MILANO www.garrettiassociati.it	Tél. : +39 02 430 6931 Fax : +39 02 480 170 51
Progetto architettonico	**GARRETTI ASSOCIATI S.r.l.** via Trieste, 9 - 20146 MILANO www.garrettiassociati.it	Tél. : +39 02 430 6931 Fax : +39 02 480 170 51
Opere edili e prefabbricati	**GENERALE PREFABBRICATI S.p.a** centro direzionale quattrotorri 06132 PERUGIA www.generaleprefabbricatispa.com	Tél. : +39 075 517 29 83 Fax : +39 075 518 12 88
Impianti meccanici	**OMEGA CONCEPT IMPIANTI E SISTEMI S.p.a.** Via Chiese, 72 - 20126 - MILANO www.engie-axima.fr	Tél. : +39 02 8180951 Fax : +39 02 8135163
impianti elettrici/dati	**ENGIE CONTRACTING ITALIA S.r.l.** Via Chiese, 72 - 20126 - MILANO www.engie.com	Tél. : +39 02 94399262 Fax : +39 02 94399655
	SCHNEIDER ELECTRIC S.p.A. Via Circonvallazione Est, 1 - 24040 STEZZANO (BG) www.schneider-electric.com	Tél. : +39 0354151111 Fax : +39 0354153200
	ENERIA Rue de Longpont - BP 10202 - 91311 MONTLHERY Cedex - FRANCE www.eneria.fr	Tél. : +33 (0) 169802100 Fax : +33 (0) 169802150
Progettazione antincendio	**STUDIO TECNICO ZACCARELLI S.r.l.** via Ludovico il Moro, 17 - 20143 MILANO www.studiozaccarelli.it	Tél. : +39 02 891 200 81 Fax : +39 02 813 962 8
Supervisione	**ITALSOCOTEC S.p.a.** Via Pontaccio,12/A- 20121 Milano italsocotec@italsocotec.it	Tél. : +39 02 89051500 Fax : +39 02 89051501

Cod	Data	Descrizione
	30/09/2022	

DATA 4 ITALY - DC07 Milan
Commissioning Level 1 - Grey tag
Cabinet and TGGE GED

Eneria CAT

CABINET CHECKLIST

Dated : 20/09/2022 FILE : DATA DC 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : EGRON Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO CONTROLLO-COMANDO D N° electrical plans : E-7021-2

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	Ok
Lock bolt condition	Ok
Key lock	Ok
Door lighting / limit switch	Ok
Cable gland plate	Ok
Assembly kit	Ok
Fixing devices	Ok

TERMINALS	
Size of terminals	Ok
Colors	Ok
Terminal markers	Ok
Terminal markers title	Ok
Shunted terminals	Ok
Honeycomb terminal	Ok
Tightening	Ok

PUSH BUTTON / SWITCHES	
Locations	Ok
Colors	Ok

SIGNALS	
LED colors	Ok
Locations	Ok

PLC	
Run / Stop key (if necessary)	NA
MMC Card	Ok
PROFIBUS Connector	NA
PLC I / O labels	Ok
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	Ok
Grounded devices	Ok
Doors connected to earth	Ok
Ground mounting plate	Ok
Grounded bottom panels	Ok
Roof to earth	Ok
Screw on earth bar	Ok

WIRES	
Sizes	Ok
Colors	Ok
Wire and cable markers	Ok
Tightening	Ok
Fixings	Ok

SHIELDING	
Shield continuity	Ok
Shielded on earth bar	Ok
Color shielded wires	Ok

LABELS	
FRONT PANEL LABELS	
Locations	Ok
Colors	Ok
Texts	Ok
Sizes	Ok
Cabinet identification label	Ok
ENERIA CAT Label	Ok
INTERNAL LABELS	
Labels on devices	Ok
Labels on chutes	Ok
Color dots on chutes	Ok
Manufacturer references label	Ok
Manual operation sheet, option	Ok

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	Ok
Wires in reserve in chutes	Ok
Breath wrench for tachometer	NA

OBSERVATIONS : Three will APi A be installed APi B on site. 6097

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	ok
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	ok
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	ok
Checking the change in state of the insulation monitor.	ok
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	ok
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	ok
Verification of each digital PLC input (viewed by SIEMENS console).	ok
Verification of each digital PLC output (forcing by SIEMENS console).	ok
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	ok
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	ok
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	ok
Lighting and limit switch check cabinet door, ventilation and thermostat.	ok
Checking the continuity of the commons	ok

OBSERVATIONS :

Eneria CAT

CABINET CHECKLIST

Dated : 19/09/2022 FILE : DATA 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : PRADINES Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO TGGE D N° electrical plans : E-7021-4

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	OK
Lock bolt condition	OK
Key lock	OK
Door lighting / limit switch	NA
Cable gland plate	OK
Assembly kit	OK
Fixing devices	OK

TERMINALS	
Size of terminals	OK
Colors	OK
Terminal markers	OK
Terminal markers title	OK
Shunted terminals	OK
Honeycomb terminal	NA
Tightening	OK

PUSH BUTTON / SWITCHES	
Locations	OK
Colors	OK

SIGNALS	
LED colors	NA
Locations	NA

PLC	
Run / Stop key (if necessary)	NA
MMC Card	NA
PROFIBUS Connector	NA
PLC I / O labels	NA
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	OK
Grounded devices	OK
Doors connected to earth	OK
Ground mounting plate	NA
Grounded bottom panels	OK
Roof to earth	OK
Screw on earth bar	OK

WIRES	
Sizes	OK
Colors	OK
Wire and cable markers	OK
Tightening	OK
Fixings	OK

SHIELDING	
Shield continuity	NA
Shielded on earth bar	NA
Color shielded wires	NA

LABELS	
FRONT PANEL LABELS	
Locations	OK
Colors	OK
Texts	OK
Sizes	OK
Cabinet identification label	OK
ENERIA CAT Label	OK
INTERNAL LABELS	
Labels on devices	OK
Labels on chutes	OK
Color dots on chutes	OK
Manufacturer references label	OK
Manual operation sheet, option	NA

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	OK
Wires in reserve in chutes	OK
Breath wrench for tachometer	NA

OBSERVATIONS :

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	NA
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	NA
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	NA
Checking the change in state of the insulation monitor.	NA
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	NA
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	NA
Verification of each digital PLC input (viewed by SIEMENS console).	NA
Verification of each digital PLC output (forcing by SIEMENS console).	NA
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	NA
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	NA
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	NA
Lighting and limit switch check cabinet door, ventilation and thermostat.	NA
Checking the continuity of the commons	ok

OBSERVATIONS :

Proprietà

DATA 4 ITALY

Progetto

DC 07
MILAN

Supervisore delegato del committente

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Cod	Data	Descrizione
	30/09/2022	

DATA 4 ITALY - DC07 Milan
Commissioning Level 1 - Grey tag
Cabinet and TGGE GEE

Eneria CAT

CABINET CHECKLIST

Dated : 20/09/2022 FILE : DATA DC 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : EGRON Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO CONTROLLO-COMANDO E N° electrical plans : E-7021-2

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	Ok
Lock bolt condition	Ok
Key lock	Ok
Door lighting / limit switch	Ok
Cable gland plate	Ok
Assembly kit	Ok
Fixing devices	Ok

TERMINALS	
Size of terminals	Ok
Colors	Ok
Terminal markers	Ok
Terminal markers title	Ok
Shunted terminals	Ok
Honeycomb terminal	Ok
Tightening	Ok

PUSH BUTTON / SWITCHES	
Locations	Ok
Colors	Ok

SIGNALS	
LED colors	Ok
Locations	Ok

PLC	
Run / Stop key (if necessary)	NA
MMC Card	Ok
PROFIBUS Connector	NA
PLC I / O labels	Ok
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	Ok
Grounded devices	Ok
Doors connected to earth	Ok
Ground mounting plate	Ok
Grounded bottom panels	Ok
Roof to earth	Ok
Screw on earth bar	Ok

WIRES	
Sizes	Ok
Colors	Ok
Wire and cable markers	Ok
Tightening	Ok
Fixings	Ok

SHIELDING	
Shield continuity	Ok
Shielded on earth bar	Ok
Color shielded wires	Ok

LABELS	
FRONT PANEL LABELS	
Locations	Ok
Colors	Ok
Texts	Ok
Sizes	Ok
Cabinet identification label	Ok
ENERIA CAT Label	Ok
INTERNAL LABELS	
Labels on devices	Ok
Labels on chutes	Ok
Color dots on chutes	Ok
Manufacturer references label	Ok
Manual operation sheet, option	Ok

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	OK
Wires in reserve in chutes	OK
Breath wrench for tachometer	NA

OBSERVATIONS : There will A Pi A be installed A Pi B on site.

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	ok
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	ok
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	ok
Checking the change in state of the insulation monitor.	ok
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	ok
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	ok
Verification of each digital PLC input (viewed by SIEMENS console).	ok
Verification of each digital PLC output (forcing by SIEMENS console).	ok
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	ok
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	ok
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	ok
Lighting and limit switch check cabinet door, ventilation and thermostat.	ok
Checking the continuity of the commons	ok

OBSERVATIONS :

Eneria CAT

CABINET CHECKLIST

Dated : 19/09/2022 FILE : DATA 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : PRADINES Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO TGGE E N° electrical plans : E-7021-4

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	OK
Lock bolt condition	OK
Key lock	OK
Door lighting / limit switch	NA
Cable gland plate	OK
Assembly kit	OK
Fixing devices	OK

TERMINALS	
Size of terminals	OK
Colors	OK
Terminal markers	OK
Terminal markers title	OK
Shunted terminals	OK
Honeycomb terminal	NA
Tightening	OK

PUSH BUTTON / SWITCHES	
Locations	OK
Colors	OK

SIGNALS	
LED colors	NA
Locations	NA

PLC	
Run / Stop key (if necessary)	NA
MMC Card	NA
PROFIBUS Connector	NA
PLC I / O labels	NA
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	OK
Grounded devices	OK
Doors connected to earth	OK
Ground mounting plate	NA
Grounded bottom panels	OK
Roof to earth	OK
Screw on earth bar	OK

WIRES	
Sizes	OK
Colors	OK
Wire and cable markers	OK
Tightening	OK
Fixings	OK

SHIELDING	
Shield continuity	NA
Shielded on earth bar	NA
Color shielded wires	NA

LABELS	
FRONT PANEL LABELS	
Locations	OK
Colors	OK
Texts	OK
Sizes	OK
Cabinet identification label	OK
ENERIA CAT Label	OK
INTERNAL LABELS	
Labels on devices	OK
Labels on chutes	OK
Color dots on chutes	OK
Manufacturer references label	OK
Manual operation sheet, option	NA

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	OK
Wires in reserve in chutes	NA
Breath wrench for tachometer	NA

OBSERVATIONS :

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	NA
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	NA
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	NA
Checking the change in state of the insulation monitor.	NA
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	NA
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	NA
Verification of each digital PLC input (viewed by SIEMENS console).	NA
Verification of each digital PLC output (forcing by SIEMENS console).	NA
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	NA
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	NA
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	NA
Lighting and limit switch check cabinet door, ventilation and thermostat.	NA
Checking the continuity of the commons	ok

OBSERVATIONS :

Proprietà

DATA 4 ITALY

Progetto

DC 07
MILAN

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Cod	Data	Descrizione
	30/09/2022	

DATA 4 ITALY - DC07 Milan
Commissioning Level 1 - Grey tag
Cabinet and TGGE GEF

Eneria CAT

CABINET CHECKLIST

Dated : 20/09/2022 FILE : DATA DC 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : EGRON Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO CONTROLLO-COMANDO F N° electrical plans : E-7021-2

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	Ok
Lock bolt condition	ok
Key lock	Ok
Door lighting / limit switch	Ok
Cable gland plate	ok
Assembly kit	Ok
Fixing devices	Ok

TERMINALS	
Size of terminals	Ok
Colors	ok
Terminal markers	Ok
Terminal markers title	ok
Shunted terminals	Ok
Honeycomb terminal	Ok
Tightening	Ok

PUSH BUTTON / SWITCHES	
Locations	Ok
Colors	ok

SIGNALS	
LED colors	Ok
Locations	Ok

PLC	
Run / Stop key (if necessary)	NA
MMC Card	Ok
PROFIBUS Connector	NA
PLC I / O labels	Ok
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	Ok
Grounded devices	Ok
Doors connected to earth	Ok
Ground mounting plate	Ok
Grounded bottom panels	Ok
Roof to earth	Ok
Screw on earth bar	Ok

WIRES	
Sizes	Ok
Colors	Ok
Wire and cable markers	Ok
Tightening	Ok
Fixings	Ok

SHIELDING	
Shield continuity	Ok
Shielded on earth bar	ok
Color shielded wires	ok

LABELS	
FRONT PANEL LABELS	
Locations	ok
Colors	Ok
Texts	ok
Sizes	ok
Cabinet identification label	ok
ENERIA CAT Label	Ok
INTERNAL LABELS	
Labels on devices	Ok
Labels on chutes	ok
Color dots on chutes	Ok
Manufacturer references label	ok
Manual operation sheet, option	ok

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	ok
Wires in reserve in chutes	ok
Breath wrench for tachometer	NA

OBSERVATIONS : Those will be installed on site 10192 10192 API A API B

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	ok
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	ok
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	ok
Checking the change in state of the insulation monitor.	ok
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	ok
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	ok
Verification of each digital PLC input (viewed by SIEMENS console).	ok
Verification of each digital PLC output (forcing by SIEMENS console).	ok
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	ok
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	ok
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	ok
Lighting and limit switch check cabinet door, ventilation and thermostat.	ok
Checking the continuity of the commons	ok

OBSERVATIONS :

Eneria CAT

CABINET CHECKLIST

Dated : 19/09/2022 FILE : DATA 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : PRADINES Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO TGGE F N° electrical plans : E-7021-4

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	OK
Lock bolt condition	OK
Key lock	OK
Door lighting / limit switch	NA
Cable gland plate	OK
Assembly kit	OK
Fixing devices	OK

TERMINALS	
Size of terminals	OK
Colors	OK
Terminal markers	OK
Terminal markers title	OK
Shunted terminals	OK
Honeycomb terminal	NA
Tightening	OK

PUSH BUTTON / SWITCHES	
Locations	OK
Colors	OK

SIGNALS	
LED colors	NA
Locations	NA

PLC	
Run / Stop key (if necessary)	NA
MMC Card	NA
PROFIBUS Connector	NA
PLC I / O labels	NA
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	OK
Grounded devices	OK
Doors connected to earth	OK
Ground mounting plate	OK
Grounded bottom panels	OK
Roof to earth	OK
Screw on earth bar	OK

WIRES	
Sizes	OK
Colors	OK
Wire and cable markers	OK
Tightening	OK
Fixings	OK

SHIELDING	
Shield continuity	NA
Shielded on earth bar	NA
Color shielded wires	NA

LABELS	
FRONT PANEL LABELS	
Locations	OK
Colors	OK
Texts	OK
Sizes	OK
Cabinet identification label	OK
ENERIA CAT Label	OK
INTERNAL LABELS	
Labels on devices	OK
Labels on chutes	OK
Color dots on chutes	OK
Manufacturer references label	OK
Manual operation sheet, option	NA

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	OK
Wires in reserve in chutes	NA
Breath wrench for tachometer	NA

OBSERVATIONS :

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	NA
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	NA
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	NA
Checking the change in state of the insulation monitor.	NA
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	NA
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	NA
Verification of each digital PLC input (viewed by SIEMENS console).	NA
Verification of each digital PLC output (forcing by SIEMENS console).	NA
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	NA
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	NA
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	NA
Lighting and limit switch check cabinet door, ventilation and thermostat.	NA
Checking the continuity of the commons	ok

OBSERVATIONS :

Proprietà

DATA 4 ITALY

Progetto

DC 07
MILAN

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Cod	Data	Descrizione
	30/09/2022	

DATA 4 ITALY - DC07 Milan
Commissioning Level 1 - Grey tag
Cabinet and TGGE GEG

Eneria CAT

CABINET CHECKLIST

Dated : 20/09/2022 FILE : DATA DC 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : EGRON Visa : egron

Receveir ENERIA : Visa :

Cabinet type : ARMADIO CONTROLLO-COMANDO G N° electrical plans : E-7021-2

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	Ok
Lock bolt condition	Ok
Key lock	Ok
Door lighting / limit switch	Ok
Cable gland plate	Ok
Assembly kit	Ok
Fixing devices	Ok

TERMINALS	
Size of terminals	Ok
Colors	Ok
Terminal markers	Ok
Terminal markers title	Ok
Shunted terminals	Ok
Honeycomb terminal	Ok
Tightening	Ok

PUSH BUTTON / SWITCHES	
Locations	Ok
Colors	Ok

SIGNALS	
LED colors	Ok
Locations	Ok

PLC	
Run / Stop key (if necessary)	NA
MMC Card	Ok
PROFIBUS Connector	NA
PLC I / O labels	Ok
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	Ok
Grounded devices	Ok
Doors connected to earth	Ok
Ground mounting plate	Ok
Grounded bottom panels	Ok
Roof to earth	Ok
Screw on earth bar	Ok

WIRES	
Sizes	Ok
Colors	Ok
Wire and cable markers	Ok
Tightening	Ok
Fixings	Ok

SHIELDING	
Shield continuity	Ok
Shielded on earth bar	Ok
Color shielded wires	Ok

LABELS	
FRONT PANEL LABELS	
Locations	Ok
Colors	Ok
Texts	Ok
Sizes	Ok
Cabinet identification label	Ok
ENERIA CAT Label	Ok
INTERNAL LABELS	
Labels on devices	Ok
Labels on chutes	Ok
Color dots on chutes	Ok
Manufacturer references label	Ok
Manual operation sheet, option	Ok

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	Ok
Wires in reserve in chutes	Ok
Breath wrench for tachometer	NA

OBSERVATIONS : Those will be installed on site 701 Q1 701 Q2 API 1 API B

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	ok
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	ok
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	ok
Checking the change in state of the insulation monitor.	ok
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	ok
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	ok
Verification of each digital PLC input (viewed by SIEMENS console).	ok
Verification of each digital PLC output (forcing by SIEMENS console).	ok
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	ok
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	ok
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	ok
Lighting and limit switch check cabinet door, ventilation and thermostat.	ok
Checking the continuity of the commons	ok

OBSERVATIONS :

Eneria CAT

CABINET CHECKLIST

Dated : 19/09/2022 FILE : DATA 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : PRADINES Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO TGGE G N° electrical plans : E-7021-4

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	OK
Lock bolt condition	OK
Key lock	OK
Door lighting / limit switch	NA
Cable gland plate	OK
Assembly kit	OK
Fixing devices	OK

TERMINALS	
Size of terminals	OK
Colors	OK
Terminal markers	OK
Terminal markers title	OK
Shunted terminals	OK
Honeycomb terminal	NA
Tightening	OK

PUSH BUTTON / SWITCHES	
Locations	OK
Colors	OK

SIGNALS	
LED colors	NA
Locations	NA

PLC	
Run / Stop key (if necessary)	NA
MMC Card	NA
PROFIBUS Connector	NA
PLC I / O labels	NA
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	OK
Grounded devices	OK
Doors connected to earth	OK
Ground mounting plate	NA
Grounded bottom panels	OK
Roof to earth	OK
Screw on earth bar	OK

WIRES	
Sizes	OK
Colors	OK
Wire and cable markers	OK
Tightening	OK
Fixings	OK

SHIELDING	
Shield continuity	NA
Shielded on earth bar	NA
Color shielded wires	NA

LABELS	
FRONT PANEL LABELS	
Locations	OK
Colors	OK
Texts	OK
Sizes	OK
Cabinet identification label	OK
ENERIA CAT Label	OK
INTERNAL LABELS	
Labels on devices	OK
Labels on chutes	OK
Color dots on chutes	OK
Manufacturer references label	OK
Manual operation sheet, option	NA

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	OK
Wires in reserve in chutes	NA
Breath wrench for tachometer	NA

OBSERVATIONS :

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	NA
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	NA
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	NA
Checking the change in state of the insulation monitor.	NA
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	NA
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	NA
Verification of each digital PLC input (viewed by SIEMENS console).	NA
Verification of each digital PLC output (forcing by SIEMENS console).	NA
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	NA
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	NA
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	NA
Lighting and limit switch check cabinet door, ventilation and thermostat.	NA
Checking the continuity of the commons	ok

OBSERVATIONS :

Proprietà

DATA 4 ITALY

Progetto

DC 07
MILAN

Supervisore delegato del committente

GIS.IMO S.r.l.
centro direzionale quattrotorri
06132 PERUGIA
Tél. : +39 075 517 29 83
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Assistente del committente

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Progetto architettonico

GARRETTI ASSOCIATI S.r.l.
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Opere edili e prefabbricati

GENERALE PREFABBRICATI S.p.a
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06132 PERUGIA
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Tél. : +39 075 517 29 83
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Impianti meccanici

OMEGA CONCEPT IMPIANTI E SISTEMI S.p.a.
Via Chiese, 72 - 20126 - MILANO
www.engie-axima.fr
Tél. : +39 02 8180951
Fax : +39 02 8135163

impianti elettrici/dati

ENGIE CONTRACTING ITALIA S.r.l.
Via Chiese, 72 - 20126 - MILANO
www.engie.com
Tél. : +39 02 94399262
Fax : +39 02 94399655

SCHNEIDER ELECTRIC S.p.A.
Via Circonvallazione Est, 1 - 24040 STEZZANO (BG)
www.schneider-electric.com
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ENERIA
Rue de Longpont - BP 10202 - 91311 MONTLHERY
Cedex - FRANCE
www.eneria.fr
Tél. : +33 (0) 169802100
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Progettazione antincendio

STUDIO TECNICO ZACCARELLI S.r.l.
via Ludovico il Moro, 17 - 20143 MILANO
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Tél. : +39 02 891 200 81
Fax : +39 02 813 962 8

Supervisione

ITALSOCOTEC S.p.a.
Via Pontaccio,12/A- 20121 Milano
italsocotec@italsocotec.it
Tél. : +39 02 89051500
Fax : +39 02 89051501

Cod	Data	Descrizione
	30/09/2022	

DATA 4 ITALY - DC07 Milan
Commissioning Level 1 - Grey tag
Cabinet and TGGE GEH

Eneria CAT

CABINET CHECKLIST

Dated : 20/09/2022 FILE : DATA DC 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : EGRON Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO CONTROLLO-COMANDO H N° electrical plans : E-7021-2

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	OK
Lock bolt condition	OK
Key lock	OK
Door lighting / limit switch	OK
Cable gland plate	OK
Assembly kit	OK
Fixing devices	OK

TERMINALS	
Size of terminals	OK
Colors	OK
Terminal markers	OK
Terminal markers title	OK
Shunted terminals	OK
Honeycomb terminal	OK
Tightening	OK

PUSH BUTTON / SWITCHES	
Locations	OK
Colors	OK

SIGNALS	
LED colors	OK
Locations	OK

PLC	
Run / Stop key (if necessary)	NA
MMC Card	OK
PROFIBUS Connector	NA
PLC I / O labels	OK
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	OK
Grounded devices	OK
Doors connected to earth	OK
Ground mounting plate	OK
Grounded bottom panels	OK
Roof to earth	OK
Screw on earth bar	OK

WIRES	
Sizes	OK
Colors	OK
Wire and cable markers	OK
Tightening	OK
Fixings	OK

SHIELDING	
Shield continuity	OK
Shielded on earth bar	OK
Color shielded wires	OK

LABELS	
FRONT PANEL LABELS	
Locations	OK
Colors	OK
Texts	OK
Sizes	OK
Cabinet identification label	OK
ENERIA CAT Label	OK
INTERNAL LABELS	
Labels on devices	OK
Labels on chutes	OK
Color dots on chutes	OK
Manufacturer references label	OK
Manual operation sheet, option	OK

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	OK
Wires in reserve in chutes	OK
Breath wrench for tachometer	NA

OBSERVATIONS : These 10197 will be 10202 installed on API A the site. API B

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	ok
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	ok
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	ok
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	ok
Checking the change in state of the insulation monitor.	ok
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	ok
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	ok
Verification of each digital PLC input (viewed by SIEMENS console).	ok
Verification of each digital PLC output (forcing by SIEMENS console).	ok
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	ok
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	ok
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	ok
Lighting and limit switch check cabinet door, ventilation and thermostat.	ok
Checking the continuity of the commons	ok

OBSERVATIONS :

Eneria CAT

CABINET CHECKLIST

Dated : 19/09/2022 FILE : DATA 07 MILANO

Subcontractor contact details: SEGA – 18 Rue du pont lafleur – 91670 ANGERVILLE

Tester(s) : PRADINES Visa :

Receveir ENERIA : Visa :

Cabinet type : ARMADIO TGGE H N° electrical plans : E-7021-4

Serial number ENERIA :

Serial number or subcontractor file:

VISUAL CONTROL

SHEET METAL	
State of paint or plates	Ok
Lock bolt condition	Ok
Key lock	OK
Door lighting / limit switch	NA
Cable gland plate	Ok
Assembly kit	Ok
Fixing devices	Ok

TERMINALS	
Size of terminals	Ok
Colors	Ok
Terminal markers	Ok
Terminal markers title	Ok
Shunted terminals	Ok
Honeycomb terminal	NA
Tightening	Ok

PUSH BUTTON / SWITCHES	
Locations	Ok
Colors	Ok

SIGNALS	
LED colors	NA
Locations	NA

PLC	
Run / Stop key (if necessary)	NA
MMC Card	NA
PROFIBUS Connector	NA
PLC I / O labels	NA
Driver Modbus in card	NA

EARTH CIRCUIT	
Seizes	Ok
Grounded devices	Ok
Doors connected to earth	Ok
Ground mounting plate	NA
Grounded bottom panels	Ok
Roof to earth	Ok
Screw on earth bar	Ok

WIRES	
Sizes	Ok
Colors	Ok
Wire and cable markers	Ok
Tightening	Ok
Fixings	Ok

SHIELDING	
Shield continuity	NA
Shielded on earth bar	NA
Color shielded wires	NA

LABELS	
FRONT PANEL LABELS	
Locations	Ok
Colors	Ok
Texts	Ok
Sizes	Ok
Cabinet identification label	Ok
ENERIA CAT Label	Ok
INTERNAL LABELS	
Labels on devices	Ok
Labels on chutes	Ok
Color dots on chutes	Ok
Manufacturer references label	Ok
Manual operation sheet, option	NA

VARIOUS	
Earth disconnector wires on terminals	NA
Cleaning	Ok
Wires in reserve in chutes	NA
Breath wrench for tachometer	NA

OBSERVATIONS :

CABINET CHECKLIST

ELECTRICAL CHECKS AND TESTS

Check, on sensitive equipment (Woodward, PLC, etc.) that the wires used for the power supply are correctly connected to the power source.	NA
If they exist in the cabinet, set the switches on the degraded operating plates (as indicated on the plans). Make the settings for different devices according to any indications on the plans.	NA
Isolation tests.	ok
Checking the fuse and circuit breaker ratings.	ok
Checking all circuits for the absence of short circuits (using an ohmeter).	ok
After checking the drawings, connect the cabinet power supplies..	OK
Checking the upstream and downstream voltages of each element by closing each circuit one by one	ok
Using a 3U / 3I case, checks of the devices connected to the voltage and current circuits: electrical measurement display, synchronoscope-coupler, and others ...	NA
Checking that the protection relays have tripped (by modifying the thresholds with the 3U / 3I case): max I ther./magn., then return, min / max U, ...	NA
Verification of the change of state of the generator voltage presence relays, busbars, network controller, etc.	NA
Checking the change in state of the insulation monitor.	NA
Checking the 24V = emergency unit, battery charger (charge a load) and associated measuring devices (voltmeter, ammeter).	NA
Checking relay chains, inverters, indicator lights, switches, etc.	ok
Verification of each entry and exit of degraded step plates (if they exist).	NA
Verification of each digital PLC input (viewed by SIEMENS console).	NA
Verification of each digital PLC output (forcing by SIEMENS console).	NA
Checking of each PLC ANA input (injection by analog signal generator and visualized by SIEMENS console).	NA
Checking of each PLC ANA output (forcing by SIEMENS console and checking by multimeter).	NA
Operation check and dialogue of devices connected with the PLC: remote monitoring, touch screen, SIEMENS display, etc.	NA
Lighting and limit switch check cabinet door, ventilation and thermostat.	NA
Checking the continuity of the commons	OK

OBSERVATIONS :

Eneria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C009
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	A STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

Data4 SMART & SCALABLE DATA CENTERS

GRISIMO S.r.l

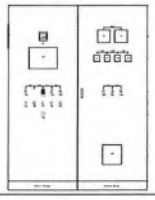
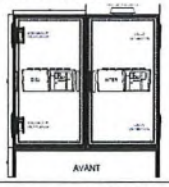
Centrale secours groupe électrogène - DATA4 bâtiment DC07 Milan

Genset Backup Power station - DATA4 building DC07 Milan

PV d'autocontrôles – Installation Armoires Electriques

Self-checking report – Installation of Electrical Cabinets

Installateur *Installer*	Localisation *Location*	Position *Position*
IMPIANTI	Local GEA *GEA Room*	According to plan GD-IM-220065-10

Equipement *Equipment*	Longueur *Length* (mm)	Profondeur *Depth* (mm)	Hauteur *Height* (mm)	Poids *Weight* (kg)	Date livraison *Delivery date*	Conforme /*Compliant* (C/NC)
Armoire Ctrl Cmd *Control cabinet* 	1600	500	2000	300	28/10/22 16/11/22	C
TGGE *Power cabinet* 	2000	1200	2200	1800	28/10/22 16/11/22	C
Coffret auxiliaire *Auxiliary cabinet* 	600	250	800	70	28/10/22 16/11/22	C

Eneria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C009
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	A STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

1 ARMOIRE GE / *GE CONTROL CABINET INSTALLATION*

1.1 Livraison et manutention de l'armoire controle commande / *Delivery and handling of control command cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel armoire contrôle commande *Visual verification of control command cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

1.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Réservation passage de cable *Reservation of cable passage*	C	

1.3 Mise en place de l'armoire contrôle commande/ *Control cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

2 INSTALLATION TGGE GE / *GE POWER CABINET INSTALLATION*

2.1 Livraison et manutention du TGGE / *Delivery and handling of power cabinet*

DESIGNATION	*C/NC*	*COMMENT*
Vérification visuel armoire TGGE *Visual verification of power cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

2.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Position caniveau pour câbles *Position of the cable channel*	C	

Commissioning Level:	LEVEL 2_RED	
Item Number:	C009	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	A STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

2.3 Mise en place de l'armoire TGGE / *Power cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

3 COFFRET AUXILIAIRE N°1 / *AUXILIARY CABINET N°1 INSTALLATION*

3.1 Livraison et manutention du coffret auxiliaire / Delivery and handling of auxiliary cabinet

DESIGNATION	C/NC	COMMENT
Vérification visuel coffret auxiliaire *Visual verification of auxiliary cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

3.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	

3.3 Mise en place du coffret auxiliaire / *Auxiliary cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement et fixation coffret auxiliaire *Positioning and fixing of the auxiliary cabinet*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

Pour valoir ce que de droit
To assert what of right

Date
Date 25/11/2022

Signature Contrôleur
Signature controller

Commissioning Level:	LEVEL 2_RED	
Item Number:	C009	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	A STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

LAST PAGE

LEVEL 2_RED	ENERIA	GISIMO/IMOGIS	CX AGENT
Name:	Alexis Gouygou		
Date:	25/11/2022		
Signature	Gouygou		

Eneria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C010
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	B STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

Data4 SMART & SCALABLE DATA CENTERS

GISIMO S.r.l.

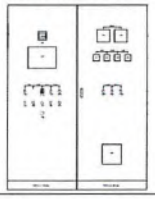
Centrale secours groupe électrogène - DATA4 bâtiment DC07 Milan

Genset Backup Power station - DATA4 building DC07 Milan

PV d'autocontrôles – Installation Armoires Electriques

Self-checking report – Installation of Electrical Cabinets

Installateur *Installer*	Localisation *Location*	Position *Position*
IMPIANTI	Local GEB *GEB Room*	According to plan GD-IM-220065-10

Equipement *Equipment*	Longueur *Length* (mm)	Profondeur *Depth* (mm)	Hauteur *Height* (mm)	Poids *Weight* (kg)	Date livraison *Delivery date*	Conforme /*Compliant* (C/NC)
Armoire Ctrl Cmd *Control cabinet* 	1600	500	2000	300	16/11/22	C
TGGE *Power cabinet* 	2000	1200	2200	1800	16/11/22	C
Coffret auxiliaire *Auxiliary cabinet* 	600	250	800	70	16/11/22	C

Commissioning Level:	LEVEL 2_RED	
Item Number:	C010	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	B STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

1 ARMOIRE GE / *GE CONTROL CABINET INSTALLATION*

1.1 Livraison et manutention de l'armoire controle commande / *Delivery and handling of control command cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel armoire contrôle commande *Visual verification of control command cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

1.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Réservation passage de cable *Reservation of cable passage*	C	

1.3 Mise en place de l'armoire contrôle commande/ *Control cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

2 INSTALLATION TGGE GE / *GE POWER CABINET INSTALLATION*

2.1 Livraison et manutention du TGGE / *Delivery and handling of power cabinet*

DESIGNATION	*C/NC*	*COMMENT*
Vérification visuel armoire TGGE *Visual verification of power cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

2.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Position caniveau pour câbles *Position of the cable channel*	C	

2.3 Mise en place de l'armoire TGGE / *Power cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

3 COFFRET AUXILIAIRE N°1 / *AUXILIARY CABINET N°1 INSTALLATION*

3.1 Livraison et manutention du coffret auxiliaire / *Delivery and handling of auxiliary cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel coffret auxiliaire *Visual verification of auxiliary cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

3.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	

3.3 Mise en place du coffret auxiliaire / *Auxiliary cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement et fixation coffret auxiliaire *Positioning and fixing of the auxiliary cabinet*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

Pour valoir ce que de droit
To assert what of right

Date
Date 25/11/2022

Signature Contrôleur
Signature controller

Commissioning Level:	LEVEL 2_RED	
Item Number:	C010	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	B STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

LAST PAGE

LEVEL 1_RED	ENERIA	GISIMO/IMOGIS	CX AGENT
Name:	Alexis Georgou		
Date:	25/11/2022		
Signature			

Eneria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C011
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	C STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

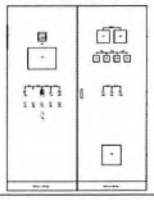
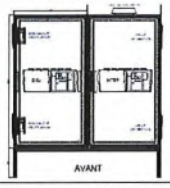
Centrale secours groupe électrogène - DATA4 bâtiment DC07 Milan

Genset Backup Power station - DATA4 building DC07 Milan

PV d'autocontrôles – Installation Armoires Electriques

Self-checking report – Installation of Electrical Cabinets

Installateur *Installer*	Localisation *Location*	Position *Position*
IMPIANTI	Local GEC *GEC Room*	According to plan GD-IM-220065-10

Equipement *Equipment*	Longueur *Length* (mm)	Profondeur *Depth* (mm)	Hauteur *Height* (mm)	Poids *Weight* (kg)	Date livraison *Delivery date*	Conforme /*Compliant* (C/NC)
Armoire Ctrl Cmd *Control cabinet* 	1600	500	2000	300	16/11/22	C
TGGE *Power cabinet* 	2000	1200	2200	1800	16/11/22	C
Coffret auxiliaire *Auxiliary cabinet* 	600	250	800	70	16/11/22	C

Enеria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C011
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	C STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

1 ARMOIRE GE / *GE CONTROL CABINET INSTALLATION*

1.1 Livraison et manutention de l'armoire controle commande / *Delivery and handling of control command cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel armoire contrôle commande *Visual verification of control command cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

1.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Réservation passage de cable *Reservation of cable passage*	C	

1.3 Mise en place de l'armoire contrôle commande/ *Control cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

2 INSTALLATION TGGE GE / *GE POWER CABINET INSTALLATION*

2.1 Livraison et manutention du TGGE / *Delivery and handling of power cabinet*

DESIGNATION	*C/NC*	*COMMENT*
Vérification visuel armoire TGGE *Visual verification of power cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

2.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	

Position caniveau pour câbles *Position of the cable channel*		

2.3 Mise en place de l'armoire TGGE / *Power cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

3 COFFRET AUXILIAIRE N°2 / *AUXILIARY CABINET N°2 INSTALLATION*

3.1 Livraison et manutention du coffret auxiliaire / *Delivery and handling of auxiliary cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel coffret auxiliaire *Visual verification of auxiliary cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

3.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	

3.3 Mise en place du coffret auxiliaire / *Auxiliary cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement et fixation coffret auxiliaire *Positioning and fixing of the auxiliary cabinet*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

Pour valoir ce que de droit
To assert what of right

Date
Date 25/11/2022

Signature Contrôleur
Signature controller

Eneria CAT	Commissioning Level:	LEVEL 2_RED	Data4 SMART & SCALABLE DATA CENTERS
	Item Number:	C011	
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
	Equipment ID / Asset Tag:	C STRING GE	GISIMO S.r.l
	Discipline:	ELECTRICAL	
	Contractor / Vendor:	ENERIA	

LAST PAGE

LEVEL 2_RED	ENERIA	GISIMO/IMOGIS	CX AGENT
Name:	Alexis Gaygas		
Date:	25/11/2022		
Signature	Gaygas		

Eneria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C012
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	D STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

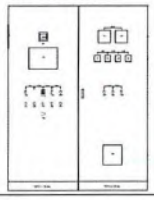
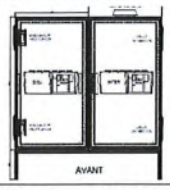
Centrale secours groupe électrogène - DATA4 bâtiment DC07 Milan

Genset Backup Power station - DATA4 building DC07 Milan

PV d'autocontrôles – Installation Armoires Electriques

Self-checking report – Installation of Electrical Cabinets

Installateur *Installer*	Localisation *Location*	Position *Position*
IMPIANTI	Local GED *GED Room*	According to plan GD-IM-220065-10

Equipement *Equipment*	Longueur *Length* (mm)	Profondeur *Depth* (mm)	Hauteur *Height* (mm)	Poids *Weight* (kg)	Date livraison *Delivery date*	Conforme /*Compliant* (C/NC)
Armoire Ctrl Cmd *Control cabinet* 	1600	500	2000	300	16/11/22	C
TGGE *Power cabinet* 	2000	1200	2200	1800	16/11/22	C
Coffret auxiliaire *Auxiliary cabinet* 	600	250	800	70	16/11/22	C

Commissioning Level:	LEVEL 2_RED	
Item Number:	C012	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	D STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

1 ARMOIRE GE / *GE CONTROL CABINET INSTALLATION*

1.1 Livraison et manutention de l'armoire controle commande / *Delivery and handling of control command cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel armoire contrôle commande *Visual verification of control command cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

1.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Réservation passage de cable *Reservation of cable passage*	C	

1.3 Mise en place de l'armoire contrôle commande/ *Control cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

2 INSTALLATION TGGE GE / *GE POWER CABINET INSTALLATION*

2.1 Livraison et manutention du TGGE / *Delivery and handling of power cabinet*

DESIGNATION	*C/NC*	*COMMENT*
Vérification visuel armoire TGGE *Visual verification of power cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

2.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Position caniveau pour câbles *Position of the cable channel*	C	

2.3 Mise en place de l'armoire TGGE / *Power cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

3 COFFRET AUXILIAIRE N°2 / *AUXILIARY CABINET N°2 INSTALLATION*

3.1 Livraison et manutention du coffret auxiliaire / *Delivery and handling of auxiliary cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel coffret auxiliaire *Visual verification of auxiliary cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

3.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	

3.3 Mise en place du coffret auxiliaire / *Auxiliary cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement et fixation coffret auxiliaire *Positioning and fixing of the auxiliary cabinet*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

Pour valoir ce que de droit
To assert what of right

Date 25/11/2022
Date

Signature Contrôleur
Signature controller

Commissioning Level:	LEVEL 2_RED	
Item Number:	C012	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	D STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

LAST PAGE

LEVEL 2_RED	ENERIA	GISIMO/IMOGIS	CX AGENT
Name:	Alexis Gouygou		
Date:	25/11/2022		
Signature	Gouygou		

Commissioning Level:	LEVEL 2 RED	
Item Number:	C013	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	E STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

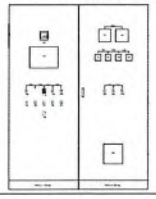
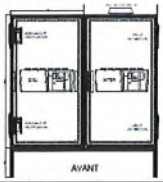
Centrale secours groupe électrogène - DATA4 bâtiment DC07 Milan

Genset Backup Power station - DATA4 building DC07 Milan

PV d'autocontrôles – Installation Armoires Electriques

Self-checking report – Installation of Electrical Cabinets

Installateur *Installer*	Localisation *Location*	Position *Position*
IMPIANTI	Local GEE *GEE Room*	According to plan GD-IM-220065-10

Equipement *Equipment*	Longueur *Length* (mm)	Profondeur *Depth* (mm)	Hauteur *Height* (mm)	Poids *Weight* (kg)	Date livraison *Delivery date*	Conforme /*Compliant* (C/NC)
Armoire Ctrl Cmd *Control cabinet* 	1600	500	2000	300	28/09/22	C
TGGE *Power cabinet* 	2000	1200	2200	1800	28/09/22	C
Coffret auxiliaire *Auxiliary cabinet* 	600	250	800	70	28/09/22	C

Enerio CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C013
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	E STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

1 ARMOIRE GE / *GE CONTROL CABINET INSTALLATION*

1.1 Livraison et manutention de l'armoire controle commande / *Delivery and handling of control command cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel armoire contrôle commande *Visual verification of control command cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

1.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Réservation passage de cable *Reservation of cable passage*	C	

1.3 Mise en place de l'armoire contrôle commande/ *Control cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

2 INSTALLATION TGGE GE / GE POWER CABINET INSTALLATION

2.1 Livraison et manutention du TGGE / *Delivery and handling of power cabinet*

DESIGNATION	*C/NC*	*COMMENT*
Vérification visuel armoire TGGE *Visual verification of power cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

2.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Position caniveau pour câbles *Position of the cable channel*	C	

2.3 Mise en place de l'armoire TGGE / *Power cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

3 COFFRET AUXILIAIRE N°3 / *AUXILIARY CABINET N°3 INSTALLATION*

3.1 Livraison et manutention du coffret auxiliaire / *Delivery and handling of auxiliary cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel coffret auxiliaire *Visual verification of auxiliary cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

3.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	

3.3 Mise en place du coffret auxiliaire / *Auxiliary cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement et fixation coffret auxiliaire *Positioning and fixing of the auxiliary cabinet*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

Pour valoir ce que de droit
To assert what of right

Date
Date 25/11/2022

Signature Contrôleur
Signature controller

Commissioning Level:	LEVEL 2_RED	
Item Number:	C013	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	E STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

LAST PAGE

LEVEL 2_RED	ENERIA	GISIMO/IMOGIS	CX AGENT
Name:	Alexis Gavyga		
Date:	25/11/2022		
Signature			

Eneria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C014
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	F STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

Data4 SMART & SCALABLE DATA CENTERS

GISIMO S.r.l

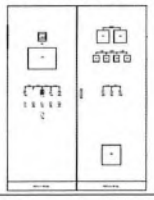
Centrale secours groupe électrogène - DATA4 bâtiment DC07 Milan

Genset Backup Power station - DATA4 building DC07 Milan

PV d'autocontrôles – Installation Armoires Electriques

Self-checking report – Installation of Electrical Cabinets

Installateur *Installer*	Localisation *Location*	Position *Position*
IMPIANTI	Local GEF *GEF Room*	According to plan GD-IM-220065-10

Equipement *Equipment*	Longueur *Length* (mm)	Profondeur *Depth* (mm)	Hauteur *Height* (mm)	Poids *Weight* (kg)	Date livraison *Delivery date*	Conforme /*Compliant* (C/NC)
Armoire Ctrl Cmd *Control cabinet* 	1600	500	2000	300	29/09/22	C
TGGE *Power cabinet* 	2000	1200	2200	1800	29/09/22	C
Coffret auxiliaire *Auxiliary cabinet* 	600	250	800	70	29/09/22	C

Eneria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C014
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	F STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

Data4 SMART & SCALABLE DATA CENTERS

GRISIMO S.r.l

1 ARMOIRE GE / *GE CONTROL CABINET INSTALLATION*

1.1 Livraison et manutention de l'armoire controle commande / *Delivery and handling of control command cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel armoire contrôle commande *Visual verification of control command cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

1.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Réservation passage de cable *Reservation of cable passage*	C	

1.3 Mise en place de l'armoire contrôle commande/ *Control cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

2 INSTALLATION TGGE GE / *GE POWER CABINET INSTALLATION*

2.1 Livraison et manutention du TGGE / *Delivery and handling of power cabinet*

DESIGNATION	*C/NC*	*COMMENT*
Vérification visuel armoire TGGE *Visual verification of power cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

2.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Position caniveau pour câbles *Position of the cable channel*	C	

2.3 Mise en place de l'armoire TGGE / *Power cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

3 COFFRET AUXILIAIRE N°3 / *AUXILIARY CABINET N°3 INSTALLATION*

3.1 Livraison et manutention du coffret auxiliaire / *Delivery and handling of auxiliary cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel coffret auxiliaire *Visual verification of auxiliary cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

3.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	

3.3 Mise en place du coffret auxiliaire / *Auxiliary cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement et fixation coffret auxiliaire *Positioning and fixing of the auxiliary cabinet*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

Pour valoir ce que de droit
To assert what of right

Date
Date 25/11/2022

Signature Contrôleur
Signature controller

Commissioning Level:	LEVEL 2_RED	
Item Number:	C014	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	F STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

LAST PAGE

LEVEL 2_RED	ENERIA	GISIMO/IMOGIS	CX AGENT
Name:	Alexis Georgou		
Date:	25/11/2022		
Signature			

Eneria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C015
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	G STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

Data4 SMART & SCALABLE DATA CENTERS

GISIMO S.r.l

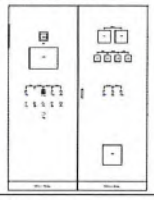
Centrale secours groupe électrogène - DATA4 bâtiment DC07 Milan

Genset Backup Power station - DATA4 building DC07 Milan

PV d'autocontrôles – Installation Armoires Electriques

Self-checking report – Installation of Electrical Cabinets

Installateur *Installer*	Localisation *Location*	Position *Position*
IMPIANTI	Local GEG *GEG Room*	According to plan GD-IM-220065-10

Equipement *Equipment*	Longueur *Length* (mm)	Profondeur *Depth* (mm)	Hauteur *Height* (mm)	Poids *Weight* (kg)	Date livraison *Delivery date*	Conforme /*Compliant* (C/NC)
Armoire Ctrl Cmd *Control cabinet* 	1600	500	2000	300	29/09/22	
TGGE *Power cabinet* 	2000	1200	2200	1800	29/09/22	
Coffret auxiliaire *Auxiliary cabinet* 	600	250	800	70	29/09/22	

Eneria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C015
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	G STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

1 ARMOIRE GE / *GE CONTROL CABINET INSTALLATION*

1.1 Livraison et manutention de l'armoire controle commande / *Delivery and handling of control command cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel armoire contrôle commande *Visual verification of control command cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

1.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Réservation passage de cable *Reservation of cable passage*	C	

1.3 Mise en place de l'armoire contrôle commande/ *Control cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

2 INSTALLATION TGGE GE / *GE POWER CABINET INSTALLATION*

2.1 Livraison et manutention du TGGE / *Delivery and handling of power cabinet*

DESIGNATION	*C/NC*	*COMMENT*
Vérification visuel armoire TGGE *Visual verification of power cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

2.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Position caniveau pour câbles *Position of the cable channel*	C	

2.3 Mise en place de l'armoire TGGE / *Power cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

3 COFFRET AUXILIAIRE N°4 / *AUXILIARY CABINET N°4 INSTALLATION*

3.1 Livraison et manutention du coffret auxiliaire / *Delivery and handling of auxiliary cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel coffret auxiliaire *Visual verification of auxiliary cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

3.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	

3.3 Mise en place du coffret auxiliaire / *Auxiliary cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement et fixation coffret auxiliaire *Positioning and fixing of the auxiliary cabinet*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

Pour valoir ce que de droit
To assert what of right

Date
Date 25/11/2022

Signature Contrôleur
Signature controller

Commissioning Level:	LEVEL 2_RED	
Item Number:	C015	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	G STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

LAST PAGE

LEVEL 2_RED	ENERIA	GISIMO/IMOGIS	CX AGENT
Name:	Alexis Gouygou		
Date:	25/4/2022		
Signature			

Eneria CAT	Commissioning Level:	LEVEL 2 RED
	Item Number:	C016
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	H STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

Data4 SMART & SCALABLE DATA CENTERS

GISIMO S.r.l

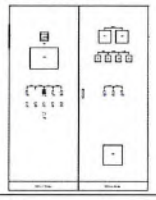
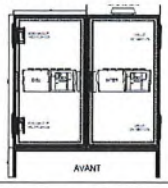
Centrale secours groupe électrogène - DATA4 bâtiment DC07 Milan

Genset Backup Power station - DATA4 building DC07 Milan

PV d'autocontrôles – Installation Armoires Electriques

Self-checking report – Installation of Electrical Cabinets

Installateur *Installer*	Localisation *Location*	Position *Position*
IMPIANTI	Local GEH *GEH Room*	According to plan GD-IM-220065-10

Equipement *Equipment*	Longueur *Length* (mm)	Profondeur *Depth* (mm)	Hauteur *Height* (mm)	Poids *Weight* (kg)	Date livraison *Delivery date*	Conforme /*Compliant* (C/NC)
Armoire Ctrl Cmd *Control cabinet* 	1600	500	2000	300	29/09/22	
TGGE *Power cabinet* 	2000	1200	2200	1800	29/09/22	
Coffret auxiliaire *Auxiliary cabinet* 	600	250	800	70	29/09/22	

Eneria CAT	Commissioning Level:	LEVEL 2_RED
	Item Number:	C016
	Item Description:	LV GEN ELECTRICAL & CONTROL PANEL
	Equipment ID / Asset Tag:	H STRING GE
	Discipline:	ELECTRICAL
	Contractor / Vendor:	ENERIA

1 ARMOIRE GE / *GE CONTROL CABINET INSTALLATION*

1.1 Livraison et manutention de l'armoire controle commande / *Delivery and handling of control command cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel armoire contrôle commande *Visual verification of control command cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

1.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Réservation passage de cable *Reservation of cable passage*	C	

1.3 Mise en place de l'armoire contrôle commande/ *Control cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

2 INSTALLATION TGGE GE / *GE POWER CABINET INSTALLATION*

2.1 Livraison et manutention du TGGE / *Delivery and handling of power cabinet*

DESIGNATION	*C/NC*	*COMMENT*
Vérification visuel armoire TGGE *Visual verification of power cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

2.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	
Position caniveau pour câbles *Position of the cable channel*	C	

2.3 Mise en place de l'armoire TGGE / *Power cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement armoire commande *Control cabinet positioning*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

3 COFFRET AUXILIAIRE N°4 / *AUXILIARY CABINET N°4 INSTALLATION*

3.1 Livraison et manutention du coffret auxiliaire / *Delivery and handling of auxiliary cabinet*

DESIGNATION	C/NC	COMMENT
Vérification visuel coffret auxiliaire *Visual verification of auxiliary cabinet*	C	
Déchargement & Manutention *Unloading & Handling*	C	

3.2 Condition de mise en place dans le local / *Condition of installation in the room*

DESIGNATION	C/NC	COMMENT
Zone d'implantation libre *Free area of implantation*	C	
Peinture au sol *Floor painting*	C	
Habillage insonorisé des murs *soundproof wall cladding*	C	

3.3 Mise en place du coffret auxiliaire / *Auxiliary cabinet installation*

DESIGNATION	C/NC	COMMENT
Positionnement et fixation coffret auxiliaire *Positioning and fixing of the auxiliary cabinet*	C	
Protection equipement : bâche *Equipement protection : tarpaulin*	C	

Pour valoir ce que de droit
To assert what of right

Date
Date 25/11/2022

Signature Contrôleur
Signature controller

Commissioning Level:	LEVEL 2_RED	
Item Number:	C016	
Item Description:	LV GEN ELECTRICAL & CONTROL PANEL	
Equipment ID / Asset Tag:	H STRING GE	
Discipline:	ELECTRICAL	
Contractor / Vendor:	ENERIA	

LAST PAGE

LEVEL 2_RED	ENERIA	GISIMO/IMOGIS	CX AGENT
Name:	Alexis Gouygou		
Date:	25/11/2022		
Signature			